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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/608,423	KHASIDASHVILI ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Phallaka Kik	2825	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 5/15/2006 and interview conducted on 5/24/2006.
2. ☒ The allowed claim(s) is/are 9-25,27, wherein claims 1-8,26 have been cancelled and claims 9-10,27,11-23,25,24 have been renumbered as 1-18 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>20060524</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other _____.   |

### DETAILED ACTION

1. This Office Action responds to Applicant's amendment filed on 5/15/2006 and interview conducted on 5/24/2006. Claims 9-25,27 are pending, wherein claims 1-8,26 have been cancelled. Claims 9-25,27 have been examined and are allowed, wherein claims 9,20,22-24,25 are subjected to the following Examiner's Amendment.

#### *Drawings*

2. As indicated previously, the drawings received on 11/14/2003 have been approved by the Examiner.

### EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David C. Oren (Reg. No. 38,694) on 5/24/2006.

The application has been amended as follows:

#### **In the claims:**

As per **claim 9**, "latch functions" (line 3) has been replaced with --the latches--;  
"and" (line 3) has been deleted;  
"." (line 4) has been replaced with --; and--  
--verifying equivalence of a circuit using the computed TBED.-- has been inserted on a separate line after line 4.

As per **claim 20**, "and" (line 3) has been deleted;  
--, and verifying equivalence of a circuit using the computed TBED-- has been inserted  
after "format" (line 4).

As per **claim 22**, "program product" (line 1) has been replaced with --readable  
media having program code embedded therein, the program code--;  
"and" (line 3) has been deleted;  
"." (line 5) has been replaced with --; and--  
--code that verifies equivalence of a circuit using the computed TBED.-- has been  
inserted on a separate line after line 5.

As per **claim 23**, "program product" (line 1) has been replaced with --readable  
media--.

As per **claim 24**, "program product" (line 1) has been replaced with --readable  
media--.

As per **claim 25**, "program product" (line 1) has been replaced with --readable  
media--.

***Allowable Subject Matter***

4. **Claims 9-25,27** are allowed.

5. The following is an examiner's statement of reasons for allowance:

As per **claims 9-25,27**, the Office Action mailed on 10/6/2005 sets forth the  
patentability of Applicant's claimed invention, wherein as previously indicated, the  
independent claims 9, 20,22, from which the claims depend respectively, recite the  
method/system/computer readable media comprising the inventive steps/means/code

for listing/placing the latches in a predetermined order in combination with the representing, computing and verifying steps/means/code as claimed, which corresponds to Applicant's specification, paragraph [14], page 4 to paragraph [51], page 14, (see especially page 11, paragraph [41]), which the prior arts made of record failed to teach or suggest. Furthermore, although **Prasad et al.** (U.S. Patent No. 7,032,192, see especially col. 2, line 60 to col. 3, line 52 and col. 4, lines 3-37) teaches the use of the ordered set of latches for equivalence verification, such verification is not based on computed TBED as claimed and therefore would not be obvious to one of ordinary skilled in the art at the time of the invention to combine the teachings of the prior arts made of record to arrive at Applicant's claimed invention. Additionally, the Examiner's amendment as given above removes all of the 35 U.S.C. 101 problems, raised by the Examiner, and further made the claims more clear. Accordingly, the claimed invention is novel and un-obvious over the prior arts made of record.

### ***Conclusion***

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phallaka Kik whose telephone number is 571-272-1895. The examiner can normally be reached on Monday-Thursday, 8:30AM-7PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**Any response to this action should be mailed to:**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**or faxed to:**

571-273-8300

  
Phallaka Kik  
U.S. Patent Examiner  
May 24, 2006